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1 **Retrieval study on hydroxyapatite-coated acetabular cups**
Hu, W.P.; Lai, K.A.; Lin, C.H.; Yang, C.Y.; Chang, G.L.;
Bioengineering Conference, 2002. Proceedings of the IEEE 28th Annual Northeast , 20-21 April 2002
Pages:5 - 6

[Abstract] [PDF Full-Text (344 KB)] **IEEE CNF**

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Pang, J.H.L.; Xiong, B.S.; Che, F.X.;
Thermal and Mechanical Simulation and Experiments in Microelectronics and Microsystems, 2004. EuroSimE 2004. Proceedings of the 5th International Conference on , 10-12 May 2004
Pages:449 - 453

[Abstract] [PDF Full-Text (429 KB)] **IEEE CNF**

2 **Some aspects of the magnetomechanical coupling in the strengthen of nonoriented and grain-oriented 3% SiFe alloys**
Hug, E.; Hubert, O.; Clavel, M.;
Magnetics, IEEE Transactions on , Volume: 33 , Issue: 1 , Jan. 1997
Pages:763 - 771

[Abstract] [PDF Full-Text (792 KB)] **IEEE JNL**

3 **Cyclic stress-strain measurement tests of Sn3.5Ag0.75Cu solder joi**
Tae-Sang Park; Soon-Bok Lee;
Electronic Materials and Packaging, 2002. Proceedings of the 4th Internationa Symposium on , 4-6 Dec. 2002
Pages:317 - 323

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1 Full Papers: Hosting activities: experience with and future directions for a robot agent host

Candace L. Sidner, Myroslava Dzikovska

January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces**

Full text available: pdf(440.84 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses hosting activities. Hosting activities are a general class of collaborative activity in which an agent provides guidance in the form of information, entertainment, education or other services in the user's environment (which may be an artificial or the natural world) and may also request that the human user undertake actions to support the fulfillment of those services. This paper reports on experience in building a robot agent for hosting activities, both the architecture a ...

Keywords: artificial intelligence, collaboration, collaborative interface agents, discourse, embodied agents, hosting agents, intelligent user interfaces, robotics

2 Full Papers: Agents and GUIs from task models

Jacob Eisenstein, Charles Rich

January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces**

Full text available: pdf(135.34 KB) Additional Information: full citation, abstract, references, index terms

This work unifies two important threads of research in intelligent user interfaces which share the common element of explicit task modeling. On the one hand, longstanding research on task-centered GUI design (sometimes called model-based design) has explored the benefits of explicitly modeling the task to be performed by an interface and using this task model as an integral part of the interface design process. More recently, research on collaborative interface agents has shown how an explicit t ...

Keywords: collaboration, model-based interface design, software agents, task models

3 Session 5C: conversational agents: A plug-in architecture for generating collaborative agent responses

Charles Rich, Neal Lesh, Andrew Garland, Jeff Rickel

July 2002 **Proceedings of the first international joint conference on Autonomous**

agents and multiagent systems: part 2

Full text available: pdf(453.82 KB) Additional Information: full citation, abstract, references, index terms

We describe an implemented architecture for programming the responses of collaborative interface agents out of easily composable and reusable plug-in components, and discuss the underlying theoretical and practical issues. The power of the architecture comes primarily from a rich representation of collaborative discourse state, which includes a focus stack and plan tree. The architecture also provides a useful separation between the principles and preferences underlying an agent's behavior. We i ...

Keywords: action selection and planning, agent architectures, conversational agents, interface agents

4 Incorporating tutorial strategies into an intelligent assistant

Jim R. Davies, Abigail S. Gertner, Neal Lesh, Charles Rich, Candace L. Sidner, Jeff Rickel

January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**

Full text available: pdf(179.48 KB) Additional Information: full citation, abstract, references, citings, index terms

Computer tutors and intelligent software assistants have traditionally been thought of as different kinds of systems. However tutors and assistants share many properties. We have incorporated tutorial strategies into an intelligent assistant based on the COLLAGEN architecture. We are working on an agent, named Triton, which teaches and helps users with the graphical user interface of an air travel planning system. We found that the collaborative model underlying COLLAGEN is an excellent fo ...

Keywords: collaboration, discourse, intelligent assistants, intelligent tutoring systems, software agents

5 Technical Papers: Learning hierarchical task models by defining and refining examples

Andrew Garland, Kathy Ryall, Charles Rich

October 2001 **Proceedings of the international conference on Knowledge capture**

Full text available: pdf(146.76 KB) Additional Information: full citation, abstract, references, citings, index terms

Task models are used in many areas of computer science including planning, intelligent tutoring, plan recognition, interface design, and decision theory. However, developing task models is a significant practical challenge. We present a task model development environment centered around a machine learning engine that infers task models from examples. A novel aspect of the environment is support for a domain expert to refine past examples as he or she develops a clearer understanding of how to mo ...

Keywords: knowledge acquisition, programming by demonstration

6 Temporal knowledge discovery in diabetus mellitus and collagen diseases

Shusaku Tsumoto

December 1998 **ACM SIGBIO Newsletter**, Volume 18 Issue 3

Full text available: pdf(79.31 KB) Additional Information: full citation, abstract

One of the important problems of knowledge discovery in medicine is that clinical databases include the large amounts of temporal information. This project aims at extracting temporal knowledge from clinical databases on diabetus mellitus and collagen diseases by using rule induction methods and hidden Markov models. Experimental results show that knowledge

which medical experts implicity use for medical expert reasoning are extracted from clinical databases. There are plans for the analysis to ...

Keywords: clinical databases, hidden Markov model, rule induction, temporal knowledge discovery

7 Dialogue: Where to look: a study of human-robot engagement

Candace L. Sidner, Cory D. Kidd, Christopher Lee, Neal Lesh

January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Full text available: pdf(397.41 KB) Additional Information: full citation, abstract, references, index terms

This paper reports on a study of human subjects with a robot designed to mimic human conversational gaze behavior in collaborative conversation. The robot and the human subject together performed a demonstration of an invention created at our laboratory; the demonstration lasted 3 to 3.5 minutes. We briefly discuss the robot architecture and then focus the paper on a study of the effects of the robot operating in two different conditions. We offer some conclusions based on the study about the im ...

Keywords: collaborative conversation, engagement, human-robot interaction, intelligent user interfaces

8 Late-breaking results: novel collaborative paradigms: A collaborative assistant for email

Dan Gruen, Candy Sidner, Carolyn Boettner, Charles Rich

May 1999 **CHI '99 extended abstracts on Human factors in computing systems**

Full text available: pdf(200.02 KB) Additional Information: full citation, abstract, references, citings

Software agents which communicate and collaborate with users to perform complex tasks constitute a new paradigm for human-computer interaction complementing existing graphical interfaces. We have recently completed a prototype agent of this kind for helping people with their email, based on our studies of people working with human assistants and Wizard-of-Oz studies. The prototype was constructed using application-independent software for modeling collaborative discourse (Collagen, see [4]) join ...

Keywords: agent, calendar, collaboration, conversation, email, speech

9 Segmented interaction history in a collaborative interface agent

Charles Rich, Candace L. Sidner

January 1997 **Proceedings of the 2nd international conference on Intelligent user interfaces**

Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms

Keywords: collaboration, discourse, interaction history, interface agent, replay, segment, undo

10 COLLAGEN: when agents collaborate with people

Charles Rich, Candace L. Sidner

February 1997 **Proceedings of the first international conference on Autonomous agents**

Full text available: pdf(736.46 KB) Additional Information: full citation, references, citings, index terms

11 Demonstration Descriptions: A GUI editor that generates tutoring agents

Jacob Eisenstein, Charles Rich

January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces**

Full text available: pdf(61.47 KB) Additional Information: full citation, abstract, references, index terms

Tutoring agents can provide a dynamic and engaging way to help users understand an application. However, integrating tutoring agents into applications is difficult. It requires the expertise to create the tutoring agent, and also an understanding of the inner workings of the application itself. This demo presents a task-based GUI editor that produces a software agent tutor for free. The designer need only create a task model, and then use the editor to produce the GUI. A tutoring agent will auto ...

Keywords: model-based GUI design, software agents

12 Full Papers: A writer's collaborative assistant

Tamara Babaian, Barbara J. Grosz, Stuart M. Shieber

January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces**

Full text available: pdf(192.48 KB) Additional Information: full citation, abstract, references, citings, index terms

In traditional human-computer interfaces, a human master directs a computer system as a servant, telling it not only what to do, but also how to do it. Collaborative interfaces attempt to realign the roles, making the participants collaborators in solving the person's problem. This paper describes **Writer's Aid**, a system that deploys AI planning techniques to enable it to serve as an author's collaborative assistant. **Writer's Aid** differs from previous collaborative interfaces in bot ...

13 Adding a collaborative agent to graphical user interfaces

Charles Rich, Candace L. Sidner

November 1996 **Proceedings of the 9th annual ACM symposium on User interface software and technology**

Full text available: pdf(1.58 MB) Additional Information: full citation, references, citings, index terms

Keywords: SharedPlan, agent, collaboration, direct manipulating, discourse, window sharing

14 Full Technical Papers: A flexible platform for building applications with life-like characters

Thomas Rist, Elisabeth Andr□, Stephan Baldes

January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

During the last years, an increasing number of R&D projects has started to deploy life-like characters for presentation tasks in a diverse range of application areas, including, for example, E-Commerce, E-learning, and help systems. Depending on factors, such as the degree of interactivity and the number of the deployed characters, different architectures have been proposed for system implementation. In this contribution, we first analyse a

number of existing user interfaces with presentation ch ...

Keywords: conversational embodied characters, intelligent systems for multimedia presentation, interface agents

15 Short Papers: Measuring task models in designing intelligent products
Elyon DeKoven, David V. Keyson
January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces**
Full text available: pdf(134.16 KB) Additional Information: full citation, abstract, references, index terms

As part of a design process, designers may create a model of user tasks. If the task model were to be built into an intelligent product's reasoning capabilities, the product could provide timely assistance specific to the user's current tasks. Thus for both the design and the intelligence of the product, the more accurate the task model, the more likely such a product may fit the users' needs. In the current paper we describe a new approach for evaluating the usability of intelligent products, b ...

Keywords: intelligent products, multimodal, plan recognition, task model, task support, user-centered design

16 Full Papers: Plan-based interfaces: keeping track of user tasks and acting to cooperate
David Franklin, Jay Budzik, Kristian Hammond
January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces**
Full text available: pdf(225.78 KB) Additional Information: full citation, abstract, references, index terms

The ability to reason about the activity of a user is crucial to the implementation of any Intelligent User Interface. If it is able to recognize what a user is doing, a computer can act to cooperate. Most computer systems limit themselves to command-response interactions- their trivial understandings of their users cannot support a more complicated interaction. However, by looking at the tasks that their users are performing and reasoning about sequences of actions, a computer system can provide ...

Keywords: perceptual user interfaces, plan-based intelligent user interfaces, representation of activity, task recognition

17 Session 5C: conversational agents: A problem solving model for collaborative agents
James Allen, Nate Blaylock, George Ferguson
July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2**
Full text available: pdf(166.86 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a model of problem solving for use in collaborative agents. It is intended as a practical model for use in implemented systems, rather than a study of the theoretical underpinnings of collaborative action. The model is based on our experience in building a series of interactive systems in different domains, including route planning, emergency management, and medical advising. It is currently being used in an implemented, end-to- end spoken dialogue system in which the system ...

Keywords: conversational agents, coordinating multiple agents and activities, intention recognition, interface agents

18 User modeling I: Supporting user hypotheses in problem diagnosis

Earl J. Wagner, Henry Lieberman

January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Full text available: pdf(745.07 KB) Additional Information: full citation, abstract, references, index terms

People are performing increasingly complicated actions on the web, such as automated purchases involving multiple sites. Things often go wrong, however, and it can be difficult to diagnose a problem in a complex process. Information must be integrated from multiple sites before relations among processes and data can be visualized and understood. Once the source of a problem has been diagnosed, it can be tedious to explain the process of diagnosis to others, and difficult to review the steps late ...

Keywords: interactive visualization, interface agents, web interfaces

19 Teamwork: A prototype infrastructure for distributed robot-agent-person teams

Paul Scerri, David Pynadath, Lewis Johnson, Paul Rosenbloom, Mei Si, Nathan Schurr, Milind Tambe

July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available: pdf(360.59 KB) Additional Information: full citation, abstract, references, index terms

Effective coordination of robots, agents and people promises to improve the safety, robustness and quality with which shared goals are achieved by harnessing the highly heterogeneous entities' diverse capabilities. Proxy-based integration architectures are emerging as a standard method for coordinating teams of heterogeneous entities. Such architectures are designed to meet imposing challenges such as ensuring that the diverse capabilities of the group members are effectively utilized, avoiding ...

Keywords: adjustable autonomy, robot-agent-person teams

20 The shaded surface display of large molecules

Thomas K Porter

August 1979 **ACM SIGGRAPH Computer Graphics , Proceedings of the 6th annual conference on Computer graphics and interactive techniques**, Volume 13 Issue 2

Full text available: pdf(664.65 KB) Additional Information: full citation, abstract, references, index terms

The complexity of computer generated images is often restricted by the storage requirements of the data and the processing time in keeping it sorted. A method is presented which alleviates the burden of storing and sorting for one previously published hidden surface algorithm.

Keywords: Computer graphics, Data structures, Hidden surface removal, Molecular graphics

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